



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

NORTHEAST NUCLEAR ENERGY COMPANY

DOCKET NO. 50-245

MILLSTONE NUCLEAR POWER STATION, UNIT NO. 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 40  
License No. DPR-21

1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment by Northeast Nuclear Energy Company (the licensee), dated June 24, 1988, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations set forth in 10 CFR Chapter I;
  - B. The facility will operate in conformity with the application, the provisions of the Act, and the rules and regulations of the Commission;
  - C. There is reasonable assurance (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations;
  - D. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and
  - E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.


2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment, and paragraph 2.C.(2) of Facility Operating License No. DPR-21 is hereby amended to read as follows:

(2) Technical Specifications

The Technical Specifications contained in Appendix A, as revised through Amendment No. 40, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

3. This license amendment is effective as of the date of issuance, to be implemented within 30 days of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION



John F. Stolz, Director  
Project Directorate I-4  
Division of Reactor Projects I/II  
Office of Nuclear Reactor Regulation

Attachment:  
Changes to the Technical  
Specifications

Date of Issuance: November 27, 1989

ATTACHMENT TO LICENSE AMENDMENT NO.40

FACILITY OPERATING LICENSE NO. DPR-21

DOCKET NO. 50-245

Replace the following page of the Appendix "A" Technical Specifications with the enclosed page. The revised page is identified by amendment number and contains a vertical line indicating the area of change.

Remove

5-1

Insert

5-1

## 5.0 DESIGN FEATURES

### 5.1 Site

The Unit 1 reactor building is located on the site at Millstone Point in Waterford, Connecticut. The nearest site boundary on land is 2063 feet northeast of the reactor building (1620 feet northeast of the elevated stack), which is the minimum distance to the boundary of the exclusion area as described in 10 CFR 100.3(a). No part of the site that is closer to the reactor building than 2063 feet shall be sold or leased except to The Connecticut Light and Power Company, Western Massachusetts Electric Company or the Northeast Nuclear Energy Company or their corporate affiliates for use in conjunction with normal utility operations.

### 5.2 Reactor

- A. The core shall consist of 580 fuel assemblies.
- B. The reactor core shall contain 145 cruciform-shaped control rods. The control material shall be hafnium and/or boron carbide powder ( $B_4C$ ) compacted to approximately 70% of theoretical density.

### 5.3 Reactor Vessel

The reactor vessel shall be as described in Table IV-1 of the FSAR. The applicable design codes shall be as described in Table IV-1 of the FSAR.

### 5.4 Containment

- A. The principal design parameters and applicable design codes for the primary containment shall be as given in Table V-1 of the FSAR.
- B. The secondary containment shall be as described in Section V-3 of the FSAR and the applicable codes shall be as described in Section XII of the FSAR.
- C. Penetrations to the primary containment and piping passing through such penetrations shall be designed in accordance with standards set forth in Section V-2 of the FSAR.

### 5.5 Fuel Storage

- A. The new fuel storage facility shall be such that the  $K_{eff}$  dry is less than 0.90 and flooded is less than 0.95.
- B. The  $K_{eff}$  of the spent fuel storage pool shall be less than or equal to 0.90. This  $K_{eff}$  value is satisfied if the maximum exposure - dependent  $K_{eff}$  of the individual fuel bundles is less than 1.35.
- C. The number of fuel assemblies stored in the spent fuel storage pool shall not exceed 3229 bundles.